

ATTACHMENT A

Clean Replacement Claims

Following herewith is a clean copy of each claim which replaces each previous claim having the same number.

1. (Twice Amended) A wound dressing comprising a carrier layer having a wound-facing surface, said surface being non-adherent to anchorage-dependent cells and having disposed thereon a biodegradable cell anchoring layer comprising one of

Rw 21

(i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and

(ii) a polycation comprising a polypeptide; and

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said anchoring layer having anchored thereto mammalian cells which form a cell layer comprising one of keratinocytes and fibroblasts.

2. (Amended) The wound dressing of claim 1 wherein the carrier layer comprises a polymeric material adherent to anchorage dependent cells and treated on the wound facing surface thereof to be non-adherent to cells, said polymeric material comprising a polymer selected from a group consisting of polyhydroxyethylmethacrylic acids, cross-lined polyvinylalcohols, polyacrylic acids cross-linked with trialkylsucrose, polyvinylpyrrolidones, polyetherpolyesters, polyetherpolyamides, polycrylamides, polyethylene oxide, polyurethanes and ethylenevinyl acetate copolymers.

C2

Part D
C3

6. (Twice Amended) The wound dressing of claim 2 wherein the wound facing surface is treated with a phosphocholine, a silicone, a polyethylene glycol or a polytetrafluoroethylene.

C4 *S/* 8. (Amended) The wound dressing of claim 1 wherein the polyanion moiety has anchored thereto a cell adhesion protein.

C5 *S/* 11. (Amended) The wound dressing of claim 1 wherein the polypeptide is polylysine.

C6 *S/* 14. (Amended) The wound dressing of claim 1 wherein the cell layer comprises both keratinocytes and fibroblasts.

Part D
C7 17. (Amended) A cell culture system comprising:
(a) a wound dressing comprising a carrier layer having a wound-facing surface, said surface being non-adherent to anchorage dependent cells and having disposed thereon a biodegradable cell anchoring layer comprising one of
(i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and
(ii) a polycation comprising a polypeptide; and

Dkt D3
(b) a vessel having interior and exterior surfaces for containing a liquid culture medium for culturing cells and the dressing.

18. (Amended) A method of treating a skin trauma site on a mammalian patient comprising the step of applying to a patient a wound dressing, said dressing comprises:

(a) a carrier layer comprising a wound surface which is non-adherent to anchorage dependent cells and having disposed thereon a biodegradable cell anchoring layer comprising one of

- (i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and
- (ii) a polycation comprising a polypeptide; and

(b) a layer of mammalian cells comprising one of keratinocytes and fibroblasts anchored to the anchoring layer.

19. A method of preparing a wound dressing comprising the steps of:

(a) obtaining a surface which is non-adherent to the anchorage dependent cells on a wound facing surface of a carrier layer;

(b) forming a biodegradable cell anchoring layer on a non-adherent to anchorage dependent cells surface of a carrier layer, said anchoring layer comprising one of

Part 7

C1
cont

- (i) a polyanion selected from the group consisting of a heparin, an inositol phosphate, fucoidin, syndecan, betaglycan, perlecan, dextran sulphate, pentosan, mesoglycan and polyvinyl sulphate; and
- (ii) a polycation comprising a polypeptide;
- (c) culturing a carrier layer which comprises a non-adherent to anchorage dependent cell surface and biodegradable cell anchoring layer in the presence of mammalian cells comprising one of keratinocytes and fibroblasts.
